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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/898,957	07/03/2001	Luc Cremers	522-1748	9739	
75	90 01/30/2004	EXAM	EXAMINER		
Lee, Mann, Smith, McWilliams, Sweeney & Ohlson P. O. Box 2786			PHAN, 1	PHAN, THAI Q	
			ART UNIT	PAPER NUMBER	
Chicago, IL 6	690-2786				
			2128	5	
			DATE MAILED: 01/30/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

,		1 41141	No	A - Boardo			
			on No.	Applicant(s)			
Office Action Summary		09/898,9	57	CREMERS ET AL.			
		Examine		Art Unit			
			1	2128			
Period f	The MAILING DATE of this communication or Reply	appears on the	e cover sheet with the (correspondence address			
THE - External control	IORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication of period for reply specified above is less than thirty (30) days, to period for reply is specified above, the maximum statutory property of the provision of the pro	ON. FR 1.136(a). In no ev n. a reply within the stat eriod will apply and w statute, cause the app	ent, however, may a reply be ting tutory minimum of thirty (30) day fill expire SIX (6) MONTHS from blication to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
1)⊠	Responsive to communication(s) filed on <u>C</u>	<u>03 July 2001</u> .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims			•			
4)⊠	☑ Claim(s) <u>1-15</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-15</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction as	nd/or election r	equirement.				
Applicat	ion Papers						
9)□	The specification is objected to by the Exar	miner.					
10)	The drawing(s) filed on $_$ is/are: a) \square	accepted or b)	objected to by the	Examiner.			
	Applicant may not request that any objection to	the drawing(s) t	oe held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the co	rrection is requir	ed if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).			
11)	The oath or declaration is objected to by the	e Examiner. No	ote the attached Office	Action or form PTO-152.			
Priority	under 35 U.S.C. §§ 119 and 120						
* (13)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Buse the attached detailed Office action for a Acknowledgment is made of a claim for domince a specific reference was included in the 7 CFR 1.78.	nents have been nents have been priority documented (PCT Rull list of the certinestic priority under first sentence provisional approvisional approximates approvisional approximates a	en received. en received in Applicatents have been receive e 17.2(a)). fied copies not receive nder 35 U.S.C. § 119(a) e of the specification of	ion No ed in this National Stage ed. e) (to a provisional application) r in an Application Data Sheet.			
	Acknowledgment is made of a claim for dom eference was included in the first sentence of						
Attachmer	nt(s)						
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948 mation Disclosure Statement(s) (PTO-1449) Paper No			(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

This Office Action is in response to patent application S/N: 09/898,957. Claims 1-15 are now pending.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Drawings

The drawings are object to because Fig. 11 fails to show block detail data and legends.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over US patent no. 6,407,548 B1, issued to Peter Dietz.

As per claim 1, Dietz discloses a method for modeling and designing an optimization of noise transmission over a gradient system with feature limitation very similar to the claimed invention. According to Dietz, the method includes steps:

Simulating wave energy source from monopole, omnidirectional wave energy source at a position remote form a body (Fig. 1, col. 4, lines 55-64),

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Computing a boundary oscillation amplitude of the wave generated by the source at the surface of the body (col. 4, line 55 to col. 5, line 24), and

Deriving from the oscillation amplitude the wave transfer function instead of the wave transfer vector as claimed.

Practitioner in the art at the time of the invention was made would have found the transfer function as derived above could imply the claimed transfer vector because the transfer function is derived from the radiated surface body which includes many points and such contributed points would contribute to form the transfer vector as claimed.

As per claims 2-3, Dietz discloses boundary element method as claimed.

As per claim 4, Dietz discloses an acoustic wave source (Summary of the Invention).

As per claims 5 and 6, Dietz discloses transfer function for different frequencies including intermediate frequency as claimed.

As per claim 7, Dietz discloses acoustic transfer function for noise source as claimed by projecting into location coordinates as claimed (Fig. 1).

As per claims 8-12, Dietz discloses such claimed limitation to compute the transfer function from gradient sources.

As per claim 13, Dietz discloses a computer system and method for modeling and designing an optimization of noise transmission over a gradient system with feature limitation very similar to the claimed invention. According to Dietz, the system includes means for performing steps of:

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Simulating wave energy source from monopole, omnidirectional wave energy source at a position remote form a body (Fig. 1, col. 4, lines 55-64),

Computing a boundary oscillation amplitude of the wave generated by the source at the surface of the body (col. 4, line 55 to col. 5, line 24), and

Deriving from the oscillation amplitude the wave transfer function instead of the wave transfer vector as claimed.

Practitioner in the art at the time of the invention was made would have found the transfer function as derived above could imply the claimed transfer vector because the transfer function is derived from the radiated surface body which includes many points and such radiated points source on the body surface would directly contribute to the transfer vector as claimed.

As per claims 14-15, Dietz discloses transfer functions for different frequency including the claimed intermediate frequency for various gradient sources (Fig. 1).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Thai Phan whose telephone number is 703-305-3812.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

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Thai Phan Jan. 25, 2004 Maythan Thai Phan Patent Examiner

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